

## ABSTRACT OF THE DISCLOSURE

An apparatus and method for simulating a mobile network having node based phased array antennas communicating through TDMA and non-TDMA links, and the network being operated under a user specified data-traffic model. The invention applies link censoring to links for avoiding self-interference. The invention computes and outputs selected network parameters. The invention facilitates simulation of prototype network designs and network performance analysis under user specified operating conditions.